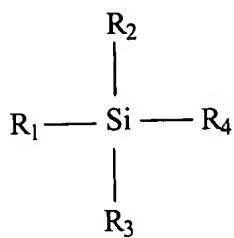


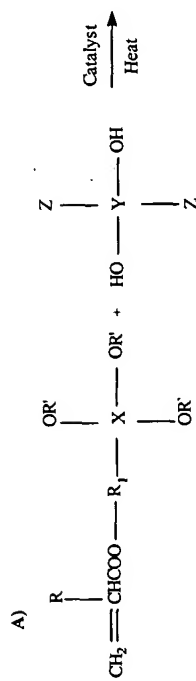
Figure 1



R₁= Alkyl (C₁ to C₈), Methacryloxyalkyl, Acryloxyalkyl, Glycidyoxyalkyl
R₂= Alkyl, Substituted Alkyl, Phenyl, Substituted phenyl, Methoxy, Ethoxy
R₃= Methyl, Methoxy, Ethoxy, Alkoxy
R₄= Methoxy, Ethoxy, Alkoxy

Figure 2
UV Curable Materials for LED Applications

A) UV



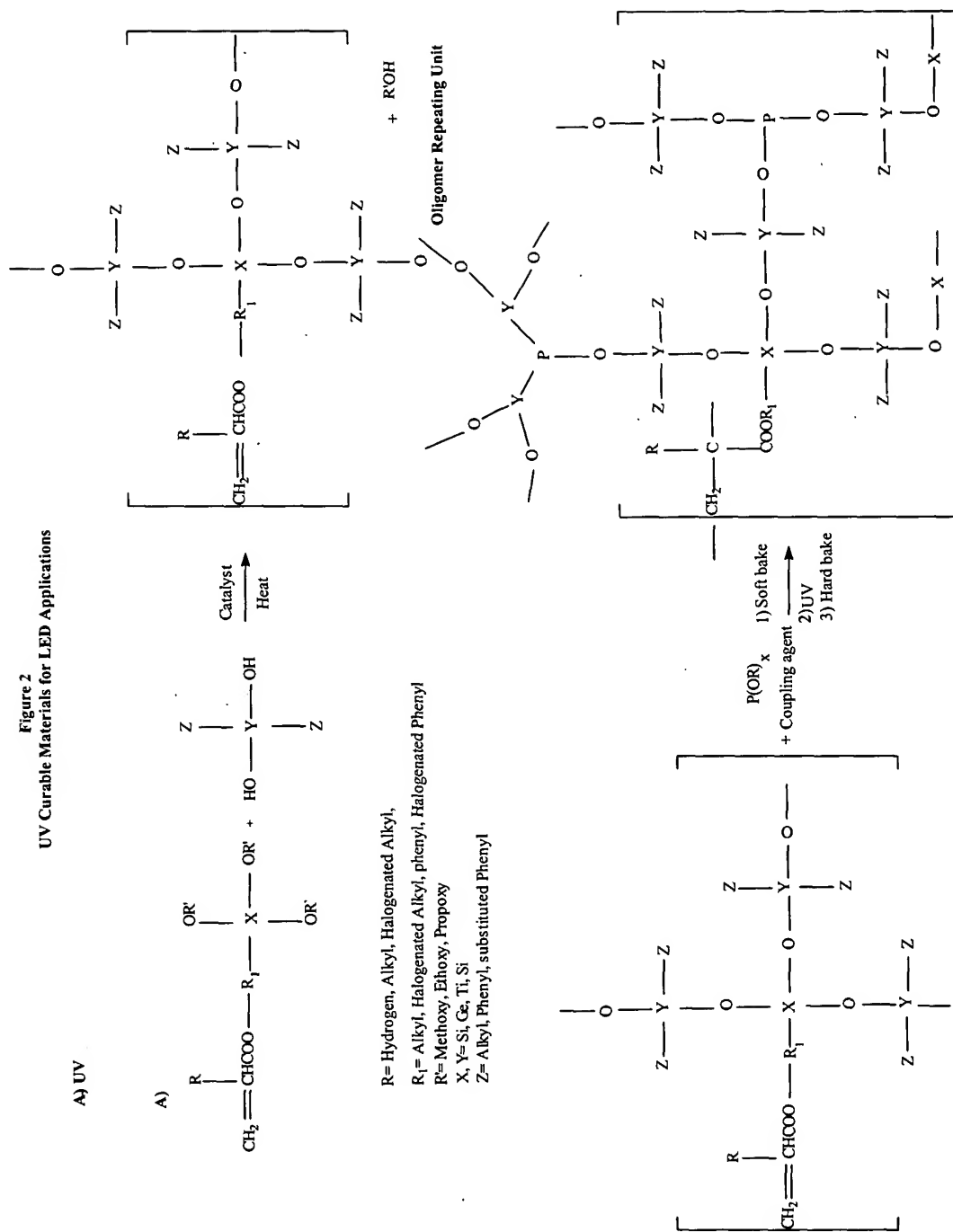
R = Hydrogen, Alkyl, Halogenated Alkyl,

R₁ = Alkyl, Halogenated Alkyl, phenyl, Halogenated Phenyl

R' = Methoxy, Ethoxy, Propoxy

X, Y = Si, Ge, Ti, Sn

Z = Alkyl, Phenyl, substituted Phenyl



6



Figure 3

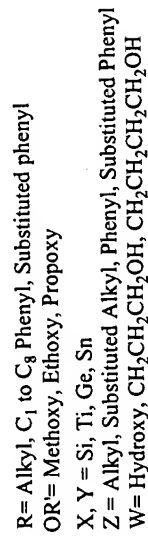
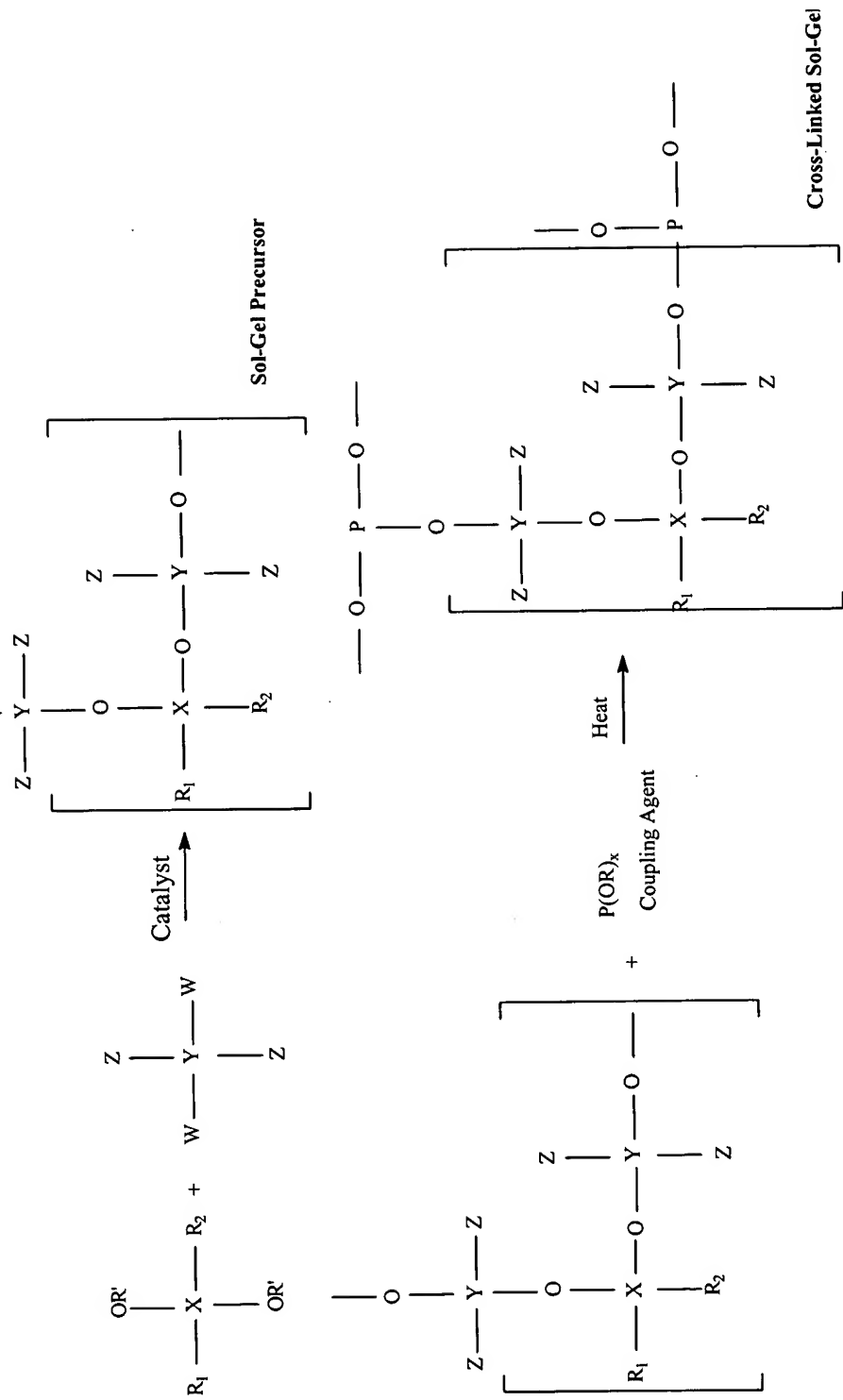


Figure 3 continued

B)



R₁= Phenyl, Propyl, Ethyl, Trifluoropropyl

R₂= Methyl, Ethyl

OR'= Methoxy, Ethoxy, Propoxy, Butoxy

X, Y= Si, Ge, Ti, Sn

Z= Alkyl, substituted Alkyl, Phenyl, Substituted Phenyl

6



Figure 3 continued

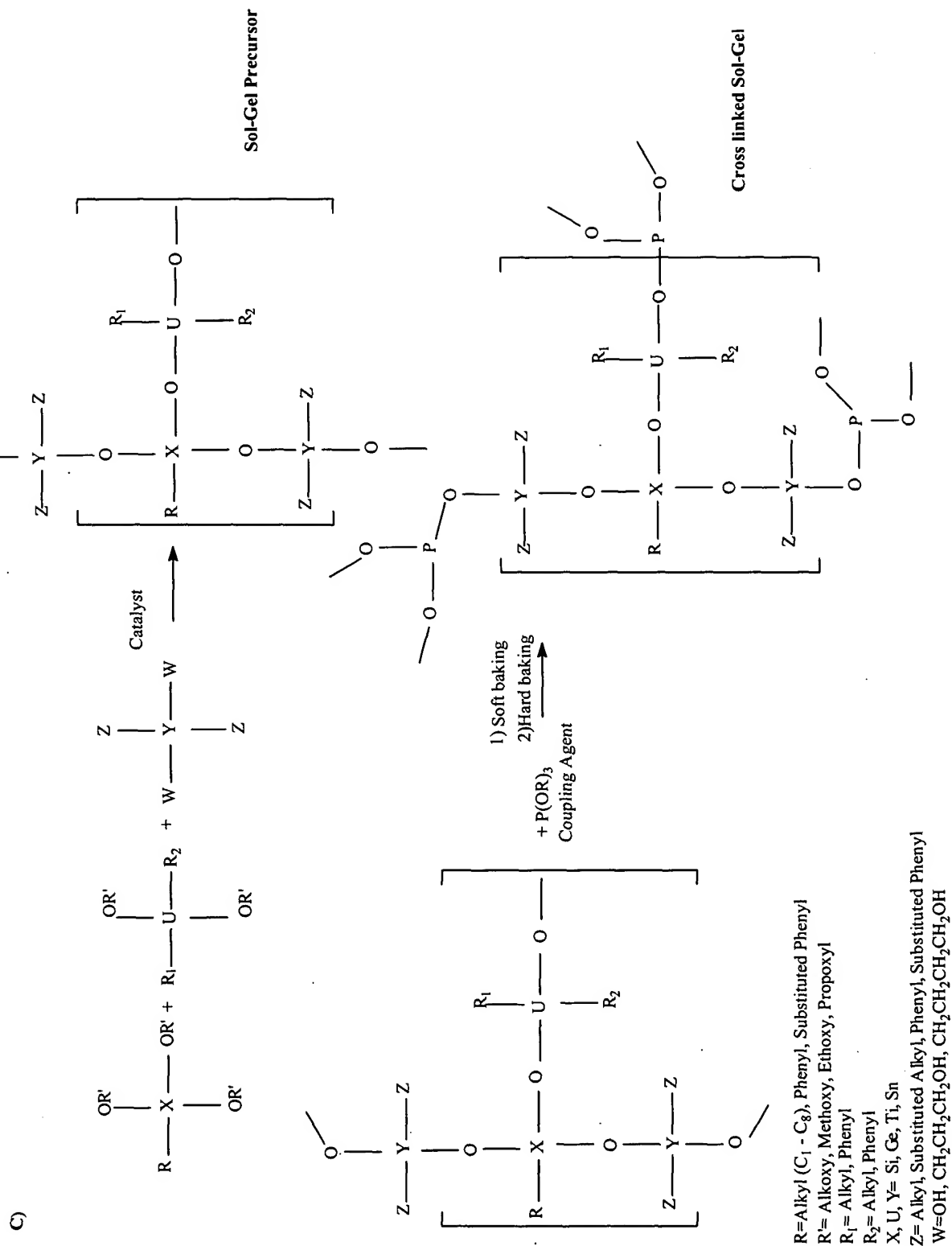


Figure 4

450 nm LED with and without Ce-YAG Y in NH core material
efficiency = 89.4 %

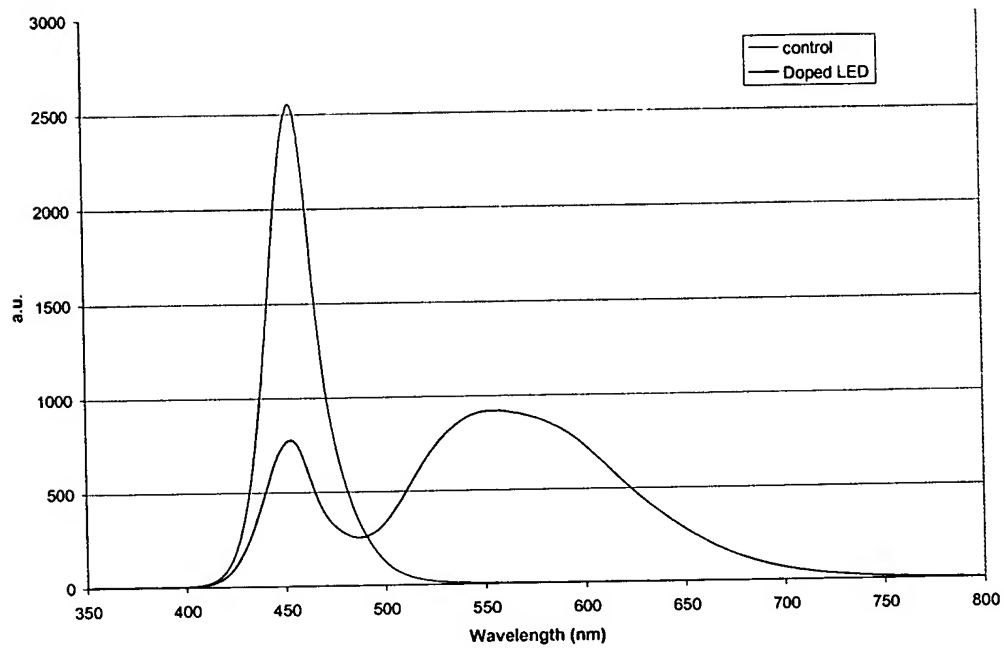


Figure 5

BOILING TEST FOR 14-148:Red

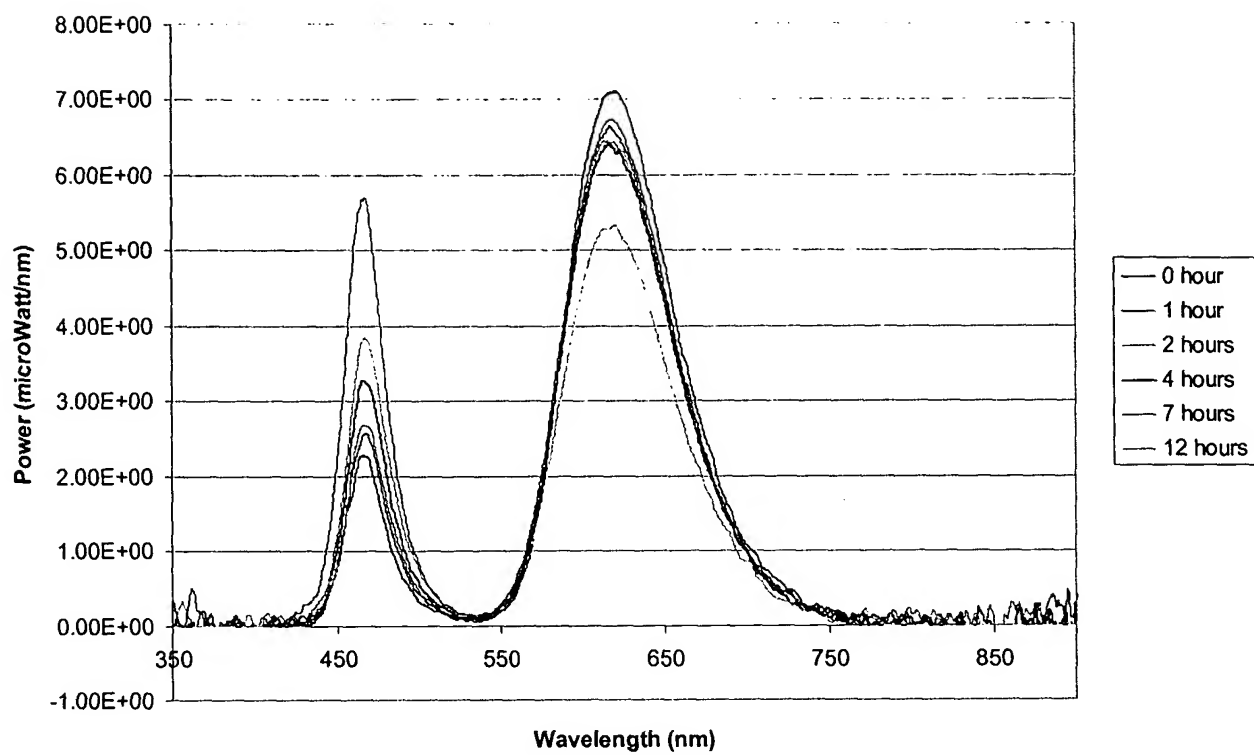


Figure 6

BOILING TEST FOR SILICONE:RED

